PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT 21494Y	FOR FURTHER ACTION	See item 4 below					
International application No. PCT/US2004/025961	International filing date (day/month/year) 11 August 2004 (11.08.2004)	Priority date (day/month/year) 15 August 2003 (15.08.2003)					
	ernational Patent Classification (8th edition unless older edition indicated) e relevant information in Form PCT/ISA/237						
Applicant MERCK & CO., INC.							

	· · · · · · · · · · · · · · · · · · ·					
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications	relating to the following items:				
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	The International Bureau will connot, except where the applicant n date (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but takes an express request under Article 23(2), before the expiration of 30 months from the priority				

Date of issuance of this report 21 February 2006 (21.02.2006) Authorized officer The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Dorothée Mülhausen Facsimile No. +41 22 740 14 35 Telephone No. +41 22 338 87 40

Form PCT/IB/373 (January 2004)

From the				RATION TRE	REC'D 0 5 JAN 2005		
INTERNATIONAL SEARCHING AUTHORITY			ORITY		WIPO PCT		
To				PCT			
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
Ann	licant's or agent's file			[(Second sheet)			
see	form PCT/ISA/2	20		FOR FURTHER ACTION See paragraph 2 below			
	mational application T/US2004/02596		International filing date (c 11.08.2004	lay/month/year)	Priority date (day/month/year) 15.08.2003		
Inter C07	mational Patent Clas 7D487/04, A61K3	sification (IPC) or t 31 <i>1</i> 519	ooth national classification	and IPC			
	licant RCK & CO., INC	·.	· · · · · · · · · · · · · · · · · · ·				
1.	This opinion co	ontains indicatio	ons relating to the folio	owing items:			
	☑ Box No. l	Basis of the op	inion				
	⊠ Box No. II	Priority		ard to novelty, inventive step and industrial applicability s.1(a)(i) with regard to novelty, inventive step or industrial supporting such statement			
	☐ Box No. III						
	Box No. IV	Lack of unity of					
	ES BOX NO. V	applicability; cit	ations and explanations				
	☐ Box No. VI	Certain docume					
	☐ Box No. VII	Certain defects	in the international appl	ication			
☐ Box No. VIII Certain observations on the international application							
2.	FURTHER ACTI	ON					
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further option	ıs, see Form PC	T/ISA/220.				
3.			orm PCT/ISA/220.				

Name and mailing address of the ISA:

Authorized Officer

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Rudolf, M

Telephone No. +49 89 2399-8604



Form (PCT/ISA/237) (Cover Sheet) (January 2004)

International application No. PCT/US2004/025961

_			
	Bo	k N	o. I Basis of the opinion
1.	Wit the	h re lan	egard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
		lar	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search and results 12.3 and 23.1(b)).
2.	Wit	h re ess	egard to any nucleotide and/or amino acid sequence disclosed in the international application and eary to the claimed invention, this opinion has been established on the basis of:
	a. ty	ype	of material:
	i	_	a sequence listing
	[table(s) related to the sequence listing
	b. fo	orm	at of material:
	[J	in written format
	[]	in computer readable form
	c. ti	me	of filing/furnishing:
	[contained in the international application as filed.
	I		filed together with the international application in computer readable form.
	[_	furnished subsequently to this Authority for the purposes of search.
3 .		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4	۸da	litio	nal commente:

International application No. PCT/US2004/025961

_			
_	Во	x No. II	Priority
1.	⊠	The fol	lowing document has not been furnished:
		\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
		Consec neverth	quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.
2.		nas be	pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3.		was no	not been possible to consider the validity of the priority claim because a copy of the priority document to available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has been established on the assumption that the relevant date is the claimed priority date.
4.	Add	litional o	bservations, if necessary:

International application No. PCT/US2004/025961

Bo ap	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Th	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
\boxtimes	claims Nos. 11-17					
be	cause:					
⊠	the said international application, or the said claims Nos. 11-17 with respect to industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	no international search report h	as b	een established for the whole application or for said claims Nos.			
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleot not comply with the technical re	and/or amino acid sequence listing, if in computer readable form only, doesenests provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further details					

International application No. PCT/US2004/025961

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-17

No: Claims

Inventive step (IS)

Yes: Claims

1-17

lo: Claims

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

Re Item III.

Claims 11-17 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V.

- 1 The following documents are referred to in this communication:
 - D1: EP 0 641 781 A (YOSHITOMI PHARMACEUTICAL INDUSTRIES LTD.) 8
 March 1995 (1995-03-08)
 - D2: EP 0 729 758 A (PFIZER INC.) 4 September 1996 (1996-09-04)
 - D3: WO 98/35048 A (SHOKAT KEVAN M; UNIV PRINCETON (US)) 13 August 1998 (1998-08-13)
 - D4: ANTHONY C. BISHOP, KAVITA SHSH, YI LIU, LAURIE WITUCKI, CHIYUN KUNG, KEVAN M. SHOKAT: "Design of allele-specific inhibitors to probe protein kinase signaling" CURRENT BIOLOGY, vol. 8, no. 5, 1998, pages 257-266, XP002308641
- 2. None of the prior art documents discloses compounds corresponding to formula I as defined in claim 1. The related compounds of the prior art differ considerably in the substituent at position 4 of the pyrazolo[3,4-d]pyrimidine ring. The claimed subject matter therefore may be considered novel and inventive over the cited pror art.

For the assessment of the present claims 11-17 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

	From t	From the INTERNATIONAL BUREAU				
PCT	To:	To:				
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 10 February 2006 (10.02.2006)	126 Rahv	MERCK & CO., INC. 126 East Lincoln Avenue Rahway, New Jersey 07065-0907 United States of America				
Applicant's or agent's file reference PCT 21494Y		IMPORTANT NOTIFICATION				
International application No. PCT/US2004/025961	4	International filing date (day/month/year) 11 August 2004 (11.08.2004)				
The following indications appeared on record concerning: X the applicant X the inventor	the ager	t	the commo	n representative		
Name and Address MCCAULEY, James, A. 126 East Lincoln Avenue Rahway, New Jersey 07065-0907 United States of America		State of Nationality US US Telephone No.				
		Facsimile No. Teleprinter No.				
		releptinter No.				
2. The International Bureau hereby notifies the applicant that to the person X the name the ad		change has be	_	concerning: the residence		
Name and Address MCCAULEY, John, A.	7	State of Natio	onality	State of Residence		
MCCAULEY, John, A. EPO-DO 2 2 02. 200		Telephone No.				
TEAM 14		Facsimile No.				
(cerum o .	Teleprinter No.					
3. Further observations, if necessary:						
4. A copy of this notification has been sent to:						
X the receiving Office	<u>[</u>	the design	ated Offices c	oncerned		
the International Searching Authority	L	the elected Offices concerned				
the International Preliminary Examining Authority	L	other:				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized	Authorized officer HUYNH Lydia				
Facsimile No. (41-22) 338.87.40	Telephone I	Telephone No. (41-22) 338 9465				

Form PCT/IB/306 (March 1994)

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